

President's Forum Pre-Meeting

Prototyping Theme Wednesday Outbrief

13/14 June 2000

Create Partnership That Supports IT Business Models
Draw in
Commercial IT and DOD C2 IT Aerospace Community

Outline

- What is Rapid Prototyping
- Benefits of Rapid Prototyping
- Obstacles/Enablers
- Implementation Plan/Strategy
- Actions

Definition of C2 IT Rapid Prototyping

- C2 IT for the C4ISR and AGS systems
- Prototype
 - Software
 - User interface modeled
 - Functionality modeled
 - Partial functionality implemented
 - Hardware
 - Limited quantity demonstration
 - Limited form, fit, function
- Rapid
 - 30 to 90 day commercial
 - 90 day to 1 year DOD

Traditional View of C2 IT Rapid Prototyping

■ Prototype

- Risk Reduction
- Explore new technology capabilities
- Early delivery -- “leave behind”

■ Obstacles

- Lack of transition funding, plans, processes
- Tail -- training, maintenance, ...

Requirements Process Hard Broken

Elements of New Business Model

- Industry creates “solutions” through “B2B-like” partnerships with government
- AF oversight by CTO, CKO, and CIO
- ESC C2 IT Portal posts
 - User CONOPS and desired “effects”
 - “certified” solutions e.g., underwriter
- Delegated authority and funding that permits the “user” to buy direct thru portal
- User buys license, usage [time, seats, functionality]
- AF [DOD] gets out of C2 IT development & support business

changes from contracting, monitoring, etc, and becomes
the
AF CTO that certifies and manages C2 IT Portal

C2 IT Rapid Solutions - What

- Delivery schedule 30 to 90 days
 - Small teams that deliver solution
 - Small packages that can be assembled into larger solutions
- Industry owns it all; NO government C2 IT intellectual property rights
- No tail -- training embedded & sustainment by vendor
- Little to no government funding of development

C2 IT Rapid Solutions - Why

- Industry is doing it today for commercial market
- Short C2 IT shelf life
 - Technology refresh
 - Retire legacy solutions faster
- Rapid fielding to the warfighter
 - Increasing capability
 - Get it ahead of adversaries
- Re-invest from development and sustainment to fielding today's technology
 - More efficient industry funded development
 - Eliminating sustainment of obsolete technology

C2 IT Rapid Solutions - How

- Push down authority to the user to buy “direct” thru C2 IT Portal
- User licenses, fee for service, franchise, etc. rapid solutions
- Business Partnership
 - Acquisition: broker, digital exchange, “underwriters”, & “consumer reports”
 - User: requirements and satisfaction

**Need to align the rapid solutions strategy
and processes with
IC2 enterprise management strategy.**

* “Direct” through broker portal

Rapid Solutions

■ Obstacles

- Get away from requirements mindset => solutions/effects
- Gov't responsibility for IT support tail
- Too many IT authorities, empower A CTO, CKO, CIO
- CRDAs & Battle Labs limited value

■ Enablers

- Delegated buy authority w/funds
- Designate ESC as AF CTO & run portal
- Industry assume support
 - e.g., integral training in solution
 - mission training is gov't

Implementation

- The process needs to be prototyped,
 - Not too small e.g., IMPACTcards start at \$5000 and periodically up to \$50,000
 - Establishment of authority with funds to user
 - Establish “underwriting” and portal
 - Partner with industry on model e.g., fee for service, licensing, etc.
 - Establish ESC as AF CTO [commodity choices, standardization, etc.]
- ESC [AF] needs to sell AF as a customer/market to C2 IT industry

Actions

- Proposed to do lessons learned to find obstacles and opportunities
- Prepare a “Rapid Solutions” portal model
- Start with buy in by the SAB for new model
- Define roles and responsibilities of AF
 - Chief Technology Officer, CTO, as ESC
 - Chief Knowledge Officer, CKO, [AF/XO?]
 - Chief Information Officer, CIO, [AF/SC?]